

SURF Colloquium N1ST Plenary Session - July 29, 2025		Zoom link:		
Gaithersburg Green Auditorium, Boulder Bldg 81 Rm 1A116		https://nist.zoomgov.com/j/1608639498?pwd=XWArU6w7ZW9vSkOPAKQ56w18aUWKbk.1		
9:45 AM ET	Welcome Remarks & Gaithersburg Moderator: <i>Cara O'Malley</i>	Boulder Moderator: <i>Ala Bazyleva</i>		Zoom Moderator: <i>Susan Schima</i>
TIME (ET)	Plenary Speaker and OU	Presentation Title		
9:55 AM	<i>Joy Roberts</i> - CTL	Modeling Wireless Communication to Improve Passenger Comfort in Autonomous Vehicles		
10:20 AM	<i>Abigail Esh</i> - EL	Exploration of Large Language Models (LLMs) to Support Early-Stage Circular Product Design of Small Electronics		
10:45 AM	<i>Isabel Wu</i> - ITL	Evaluating the Resilience and Generalization of Forensic Generative AI Detection Systems		
11:10 AM	<i>Ryan C. Giang</i> - MML	(CHIPS) Lifetime Predictions and Cure Kinetics of Semiconductor Packaging Materials via Thermal Analysis		
11:35 AM	BREAK	N/A		
11:50 AM	<i>Xuliana O</i> - NCNR	ROADBot: Autonomous optimization of compositionally diverse lipid bilayers on solid supports		
12:15 PM	<i>Harshit Agarwal</i> - PML (Boulder)	Tracing the Cosmic Microwave Background: Polarization Detection with Superconducting Kinetic Inductance Detectors		
12:40 PM	<i>Kaleb Jewell</i> - Boulder speaker - MML	(CHIPS) Democratizing Gallium Nitride Wafer Metrology		
1:05 PM	LUNCH	N/A		
		Parallel Session #1	Parallel Session #2	Parallel Session #3
Parallel Sessions Tuesday, July 29, 2025	Location	Gaithersburg, Bldg 101, Lecture Room A	Gaithersburg, Bldg 101, Lecture Room D	Gaithersburg, Bldg 101, Lecture Room B
	Zoom Link	https://nist.zoomgov.com/j/1613129217?pwd=Vltu1fYltWbMifGRVPMzqdYZaARs.1	https://nist.zoomgov.com/j/1608639498?pwd=XWArU6w7ZW9vSkOPAKQ56w18aUWKbk.1	https://nist.zoomgov.com/j/1609805719?pwd=6r3R1CvXbelahjUuOgN5eM6ZsNhb3.1
Time (ET)	Host Info	Host Laboratory: PML Moderator: <i>Joe Rice</i> Zoom Moderator: <i>Susana Deustua</i>	Host Laboratory: MML Moderator: <i>Carrie Campbell</i> Zoom Moderator:	Host Laboratory: EL Moderator: <i>Kathleen Hoffman</i> Zoom Moderator:
	1:45 PM	<i>Meagan Porter</i> : The Absolute Flux Calibration of Stars	<i>Charles Rhys Campbell</i> : (CHIPS) CrystalGen: Benchmarking GPT, Diffusion, and Flow Models for Atomic Structure Discovery	<i>Christopher Jin</i> : Degradation Mechanism Study and Failure Analysis of Polymeric Components in Photovoltaic Modules
	2:00 PM	<i>Lucy Collins</i> : Improving Spectral Irradiance Responsivity Calibration with the FLUX Instrument	<i>Ian Fagan</i> : The Challenges of Maintaining Data Infrastructure Systems: A Materials Genome Initiative Case Study	<i>Nikita Polyakov</i> : Evaluating 3D LiDAR Performance
	2:15 PM	<i>Grayson Garner</i> : Durability of silicon optic surface treatment for extreme ultraviolet scatterometry	<i>Owen Lin</i> : Atoms to Fields: Bridging Length Scales for Grain Boundary Modeling	<i>Jeanelle Lin</i> : Developing a Mobile Automated Refrigerant Charging Machine
	2:30 PM	<i>Kylli Orr</i> : High Speed Arduino Servo		<i>Alvin Persaud</i> : Automating The Data Collection of Alternative Refrigerant Flammability
	2:45 PM	BREAK	BREAK	BREAK
	Host Info	Host Laboratory: PML Moderator: <i>Darwin Reyes-Hernandez</i> Zoom Moderator: <i>Toni Litorja</i>	Host Laboratory: MML Moderator: <i>Carly MuletzWolz</i> Zoom Moderator:	Host Laboratory: EL Moderator: <i>Ashley Carey</i> Zoom Moderator:
Time (ET)	3:00 PM	<i>Oren Friedlin</i> : Robust and Efficient Wavelength Conversion for Hybrid Quantum Networks	<i>Sarika P. Kapadia</i> : Unraveling Soil Microbiome Composition and Interactions: A Network Analysis Approach	<i>Chole Whalen</i> : HVAC Analysis: Investigating Real Building System Data
	3:15 PM	<i>Benjamin Pittelkau</i> : Simulation-Based Design of a Plasmonic Schottky Detector for Mid-IR Opioid Detection	<i>Khoa Hoang</i> : Mammalian Cell Counting Techniques Using the NISTCHO Reference Cell Line	<i>Meredith Estrella Hernandez</i> : Program a Raspberry Pi to Emulate an HVAC Controller
	3:30 PM	<i>Ruben Dasgupta</i> : Probing Photonic Crystal Mirror Performance	<i>Terra Pickett</i> : Use of varying angles and apertures in ATR and Transmission FTIR to Measure Distance of Specific Functional Groups within AMPs	<i>Charlie Reed</i> : Investigation of Thermal Properties of Encapsulated Phase Change Materials (PCMs)
	3:45 PM	<i>Lan Le</i> : Automating Optofluidic Flow Metrology Calibration through Optimization	<i>Edgar Robitaille</i> : CompareLR: A Comparative Analysis Tool for Evaluating Probabilistic Genotyping Software Using Likelihood Ratios	<i>Rachel Vartanian</i> : Behavioral Economics of Volcanic Resilience: A Use Case Exploration for Co-DECIDR
	4:00 PM	<i>Luca Caruso</i> : Cell Migration Assays in Microfluidic-based Systems for Studies of Cancer Aggressiveness	<i>Alitza Saiffer</i> : Impact of Structural Motifs in Antimicrobial Peptides on Membrane Interaction and Antibacterial Activity	<i>Victor Mathias</i> : Automated Measurement of Pressure Loss in Modern Plumbing Fittings
	4:15 PM	BREAK	BREAK	BREAK
Time (ET)	Host Info	Host Laboratory: PML Moderator: <i>Dan Barker</i> Zoom Moderator: <i>Steve Eckel</i>	Host Laboratory: MML Moderator: <i>Howie Joress</i> Zoom Moderator:	Host Laboratory: EL Moderator: <i>Stephanie Watson</i> Zoom Moderator:
	4:30 PM	<i>Stephen Chen</i> : Developing Fast Readout for High Vacuum Optomechanical Pressure Sensors	<i>Grace Boyer</i> : Investigating analytical methods for detection, identification, and quantitation of drug mixtures	<i>Ting/Xael Shan</i> : Building a Co-Simulation Platform Integrating Semantic Interoperability for Building Control
	4:45 PM	<i>Ramon Perez</i> : Chemical Enhancement of MgF from a CBGB Source via Laser Excitation	<i>Zainab Altamimi</i> : (virtual) QA/QC in Point-of-Care Pharmaceutical Manufacturing and Precision Medicine	<i>Alexander Ibacache</i> : Early-Age Mechanical Properties of Triaxial Porcelain Aggregate Concrete
	5:00 PM	<i>Jeyadave Nuntha Kumar</i> : Computational and Experimental Evaluation of Anemometer Blockage in a Benchtop Wind Tunnel	<i>Johanna Zimmerli</i> : Optimization of Cryomilling Process for Development of Micro and Nanoplastics Test Materials	<i>Elizabeth Hackley</i> : Screening for Pyrrhotite and its Reaction Products in Concrete using Raman and Near IR Spectroscopy
	5:15 PM	<i>Pragya Natarajan</i> : SlowFlowS: Simulating Thermal Effects in Rate-of-Rise Standards Using COMSOL	<i>Julia Tisaranni</i> : Optimizing the Development of Metal-Organic Frameworks Through Autonomous Design	<i>Melissa Karwowski</i> : The Oxidation Rates of Pyrrhotite and Other Minerals When Exposed to Bleach
	5:30 PM	END for the Day	END for the Day	END for the Day

Parallel Sessions Wednesday, July 30, 2025	Parallel Session #1			Parallel Session #2			Parallel Session #3		
	Location	Gaithersburg, Bldg 101, LR-A		Gaithersburg, Bldg 101, LR-B		Gaithersburg, Bldg 101, LR-D			
	Zoom Link	https://nsl.zoomgov.com/j/2613129217?pwd=VThuWk56MTZpbnR5d0h0aG9kdjZaR0Zk.1		https://nsl.zoomgov.com/j/21608639498?pwd=KlU0c0Y0eU9kZW50aG9kdjZaR0Zk.1		https://nsl.zoomgov.com/j/1603905719?pwd=6r3RlU0c0Y0eU9kZW50aG9kdjZaR0Zk.1			
Time (ET)	Host Info	Host Laboratory: PML Moderator: <i>Angie Hight-Walker</i> Zoom Moderator: <i>Theresa Ginley</i>		Host Laboratory: MML Moderator: <i>Yvonne Gerbig</i> Zoom Moderator:		Host Laboratory: CTL Moderator: <i>Wesley Garey</i> Zoom Moderator: <i>Jon Wang</i>			
	9:00 AM	Grant Chapman : Laser Locking to Distinct Spectral Peaks		Shawn Chen : (CHIPS) A Dual Approach to Digital Image Correlation (DIC): Open-Source Benchmarking and Deep Learning		Benjamin Wing : Deep Reinforcement Learning for Configuring Multi-Hop Sidelink Relay Networks			
	9:15 AM	Thea Bieleje : Off-axis Holographic Imaging of Marangoni Surface Waves on a Shallow Ferrofluid Layer		Siena Iavarone-Garza : (CHIPS) Characterizing Residual Stress in Semiconductor Packaging Films Induced by Hygrothermal Cycling		Milosz Fecko : A Path to Zero-Trust-Enabled Deployment of O-RAN Components in Cloud-Native Environments			
	9:30 AM	Ramakrishnan Gopinath : Advancing Magneto-Optical Spectroscopy through Automation of Spatial Temperature and Field Mapping		Dante Ribeiro : (CHIPS) Development of a Low Dielectric Epoxy Test Material for Semiconductor Packaging		Tyler Wong : IoT Smart Sensor Network for Real-Time Environment Monitoring			
	9:45 AM	Arden Dambalagian : Sub Microgram Mass Measurement and Analysis		Leonardo Borchert : (CHIPS) Measuring Interfacial Bonding Strength of Photonic Devices by Indentation-Induced Blistering					
	10:00 AM	Kira Yuen : Improving Commercial Viability of a Kibble Principle Torque Standard		Annabel Shim : Microstructural Evolution in Direct Reduction Ironmaking					
	10:15 AM	BREAK		BREAK		BREAK			
Time (ET)	Host Info	Host Laboratory: PML Moderator: <i>Uwe Arp</i> Zoom Moderator: <i>Christian Pedersen</i>		Host Laboratory: MML Moderator: <i>Alex Landaauer</i> Zoom Moderator:		Host Laboratory: TPO Moderator: <i>John Bittman</i> Zoom Moderator:			
	10:30 AM	Juan Diego Astudillo : Numerical Simulation of Heat Transfer in Cryogenic Silicon to Inform Design of a Novel Quantum Sensor		Avery Ye : Advancements in OCEAN: Curvilinear Real-Space Grids for Core-Level Spectroscopy					
	10:45 AM	Tarun Jacob : Monte Carlo Modeling of Ionization Chambers for Brachytherapy Dosimetry		Ritika Rajamani : WebFF Molecular Dynamics (MD) Force-Field Repository: Schema Expansion, Programming and Data Testing					
	11:00 AM	Ravi Jain : Simulation of SubkeV Ion Transition Edge Sensors for the True Bequelet Project		Bridget Bidwell : (CHIPS) Accelerated Discovery of Amorphous Dielectric Materials Using Machine Learning and First-Principles Simulations		Jackson Brunner : Resolving discrepancies in federal agency data			
	11:15 AM	Christophe Kniss : Reducing Thermal Load: Wireless Interconnects Inside the Cryogenic Chamber		Nishwanth Gudimalla : (CHIPS) Tuning the Magnetic Properties of Two-dimensional (2D) VxTi1-xSe2 Through Alloying		Angelo Guan : Fight or Flight: Unique trends in federal research commercialization			
	11:30 AM	Jameson Lou : Developing Reflow Solder Packaging for Cryogenic Devices to Improve Fidelity							
	11:45 AM	LUNCH		LUNCH		LUNCH			
Time (ET)	Host Info	Host Laboratory: PML Moderator: <i>Christina Hacker</i> Zoom Moderator: <i>Eric Switzer</i>		Host Laboratory: MML Moderator: <i>Erin Adkins</i> Zoom Moderator:		Host Laboratory: EL Moderator: <i>Jason Averil</i> Zoom Moderator: <i>Anthony Downs</i>			
	12:45 PM	Jack Stawasz : Measuring the Kerr Effect in Silicon via Ultrafast Spectroscopy		John Kline : Anchoring O ₂ A-band Spectra Using an Optical Frequency Comb		Ben Johnson : Time-resolved Viscoelastic Properties of Hydrating Cement Pastes			
	1:00 PM	Ariam Yohannes : Predicting Atomic-Scale Device Properties using IBM Heron v2 Digital Quantum Simulators		Aditya Chethyan : Modeling Ion Distributions in Block Copolymers Using Resonant Soft X-ray Scattering		Gabriel Johnson : Corrosion Mechanisms at the Steel-Concrete Interface: Insights from Pore Solution Chemistry Electrochemical Characterization			
	1:15 PM	Nathan Gehl : Improving Nanoscale Electrical Devices for Use in Quantum Sensing Regimes		Tyra E. Espedal : Measuring Fluorescence Phenomena in Time-Gated Raman Spectroscopy		Hagan Yeoh : (CHIPS) Enhancement in PDR by Adding Usage Metrics Summary and Exploring			
	1:30 PM	Marios Kalpakis : Associative Memories in Temporal Networks		Samuel Bantz : In-Situ Monitoring of Ceramic Vat Photopolymerization 3D Printing		Rusid Rausak : Changes in PFAS Levels over Time in Unused Firefighter Gear			
	1:45 PM			Dylan Roberts : (CHIPS) An Analysis of the Thermal Stability of Magnetic Nanostructures		Ambika Anand : Characterizing PFAS Exposure in the Firefighter Workplace			
	2:00 PM	BREAK		BREAK		BREAK			
Time (ET)	Host Info	Host Laboratory: ITL Moderator: <i>Simon Su</i> Zoom Moderator: <i>Yolanda Bursie</i>		Host Laboratory: MML Moderator: <i>Trey Diulus</i> Zoom Moderator:		Host Laboratory: EL Moderator: <i>Joannie Chin</i> Zoom Moderator: <i>Anthony Downs</i>			
	2:15 PM	Britney Meza : Digital Identity Guidelines and OSCAL Advancing Machine Readable Techniques for Assessing Compliance with NIST SP 800-63		Lina Stensland : (CHIPS) Exploring chemistry & thickness of tin photoresists for extreme ultra-violet lithography		Huda Kemal : Per- and Polyfluoroalkyl Substances (PFAS) Concentrations in Upholstery Textiles at Elevated Temperatures			
	2:30 PM	Fevrik Badorf : Exploring Combinatorial Methods for Dimensionality Reduction in ML		Christopher Gutowski : (CHIPS) Probing Molecular Diffusion Into BARC Layers in Advanced Photoresists		Sebastian Seda : The Hazards of E-Scooter Fires & Their Implications for Public Safety			
	2:45 PM	Abigail Hanson : Synthetic Overlays on Real-World Road Data for Testing the Robustness of AI Perception		Katia Graciela Gonzalez-Adame : Understanding Density Functional Theory for Copper Electrodeposition Analysis		Christopher Siskbey : The Optimization and Construction of the Controlled Atmosphere Pyrolysis Apparatus (CAPA II)			
	3:00 PM	Rajeev Raghavan : Building a Computer Vision-Based Video Browser for the Text Retrieval Conference (TREC)		Aryn Loew : (CHIPS) Step by Step: Investigating the Electrodeposition of Copper		Philip Huang : Development of Material Flammability Database: Integrating Legacy Cone Calorimeter Data into Backend-External Data Flow			
	3:15 PM	Rowan Wiles : Exploration Into Immersive 3D Data Visualization		Harkeerth Vij : (CHIPS) Developing Standard Reference Materials for Use in CHIPS Through X-Ray Fluorescence		McCarthy Devine : Design, Implementation, and Validation of Test Methods for Emergency Response Robots and UAVs			
	3:30 PM	BREAK		BREAK		BREAK			
Time (ET)	Host Info	Host Laboratory: ITL Moderator: <i>Derek Juba</i> Zoom Moderator: <i>Yolanda Bursie</i>		Host Laboratory: MML Moderator: <i>Julie Rieland</i> Zoom Moderator:		Host Laboratory: EL Moderator: <i>Andre Thompson</i> Zoom Moderator: <i>Amy Mensch</i>			
	3:45 PM	Millie Vyas : Redline_AI Tool: Building Context for LLMs		Eliana Crew : Development of SFT-based Coarse-grained Models of Noble Gases and Other Small Molecules for Vapor-liquid Equilibria Simulations		Jia Xi Lin : Accuracy Evaluation of Human Motion Tracking Systems			
	4:00 PM	Daksh Gautam : Extraction of Technical Insights from Scientific Papers using Large Language Models		Naman Parikh : Evaluating the Performance of VQE for Quantum-DFT Embedding on Chemical Databases		Charles Bradshaw : Mobile Manipulator Performance under Dynamic End Effector Payloads			
	4:15 PM	Arjun Parikh : Quantifying Uncertainty of Texture Directionality Prediction by Neural Networks		Preston Yeung : Computational Fluid Dynamics (CFD) Analysis of L-PBF Additive Manufacturing		Michael Donnelly : Training Data Generation for Robots Reinforcement Learning			
	4:30 PM	Rugved Zarkar : (CHIPS) Line Width Measurements of Integrated Circuits Using Time-efficient Acquisition of Scanning Electron Microscopy Images and Artificial Intelligence		Trisha Lad : Sample Form Effects in Near-IR Analysis of Post-Consumer Polyolefins for Machine Learning		Arnab Juneja : Digital Twin Robot Teleoperation Interface in Virtual Reality			
	4:45 PM	Diana Petrenko : Linking Broken Trajectories for Gene Therapy Particle Tracking				Joseph Sanchez : Development of a Verification, Validation, and Uncertainty Quantification Method for Digital Twins of CNC Machines			
	5:00 PM	END for the Day		END for the Day		END for the Day			

		Parallel Session #1	Parallel Session #2	Parallel Session #3	Parallel Session #4
Parallel Sessions Thursday, July 31, 2025	Location	Gaithersburg, Bldg 101, LR-A	Gaithersburg, Bldg 101, LR-B	Gaithersburg, Bldg 101, LR-D	Boulder, Bldg 81, Rm 1A116
	Zoom Link	https://nist.zoomgov.com/j/1613129217?pwd=Vltu1FtUWbMlGRlVPOMzqdYZaARs.1	https://nist.zoomgov.com/j/1608639498?pwd=XWAfU6w7ZW9vSkOPAKQ56w18aUWKbk.1	https://nist.zoomgov.com/j/1609805719?pwd=6r3R1CvXbelahJUuQqNSeM6ZsNhb3.1	https://nist.zoomgov.com/j/1617027153?pwd=zOdVa9QQu2U0MWGvtxieN4IfagLBg.1
Time (ET)	Host Info	Host Laboratory: ITL	Host Laboratory: NCNR	Host Laboratory: EL	
		Moderator:	Moderator: Dr. Charles Ying and Dr. Debasis Majumbar, NSF	Moderator: Kathleen Hoffman	
		Zoom Moderator: Yolanda Bursie	Zoom Moderator:	Zoom Moderator:	
	9:00 AM	Marianne Nguyen : Calibration and Validation of X-Ray CT Simulation for Advanced Packaging	Clara Do : Effects of Mixing, Aging and pH on Lipid Nanoparticle RGTm	Madyann Saidi: Evaluating Tactile Sensors for Human-Robot Safety Compliance Using Biomechanical Simulation	
	9:15 AM	Yuna Chun: Towards High Fidelity Localization for Latched Readouts in Quantum Dot hybrid Qubit Systems	Abigail Lapadula : Rheology and Nanostructure of Hydroxypropyl Methylcellulose at High-Shear Rates	Alex Tamagno : Application of IEEE Standard for Robot Task Representation in ARIAC	
	9:30 AM	Olivia Cong : Quantum Process and State Tomography Modeling in Cesium Vapor Cell Quantum Memory	Eric Welp: Piezostrain behavior and Magnetoelectric Coupling in Co/PMN-PT structures	END of Parallel Session #3 Join Parallel Session #4 at 10:40 amET	
	9:45 AM	Angela Shen : Polarization Reference Frame Alignment Using the Inverse-matrix Method	Henry Pires-Tolson : Magnetic Properties of Chemically-tuned Nickel Compounds		
10:00 AM	Jack Deye: Higher-Order Numerical Methods for Integro-differential Equations in Biological Field Effect Transistors	Taian Chen : Remote Camera for Reactor Latch Inspection, and Other Reactor Engineering Projects			
10:15 AM	END of Parallel Session #1 Join Parallel Session #4 at 10:40 am ET	END of Parallel Session #2 Join Parallel Session #4 at 10:40 am ET	BREAK	BREAK	
Time (ET)			Time (MT)	Host Info	Host Laboratory: SURF Boulder Moderator: Genevieve Holliday Zoom Moderator: Henry Axon
	10:40 AM			8:40 AM	Boulder Colloquium Welcome Remarks: Susan Schima
	10:45 AM			8:45 AM	Suvan Ravi (CTL): Squeezed Microwave States from a Kinetic Inductance Traveling Wave Parametric Amplifier (TWPA)
	11:00 AM			9:00 AM	Dennis Chunikhin (PML): Measuring Microwave Qubits with Millimeter Wave Photons
	11:15 AM			9:15 AM	Ariana Taylor (PML): Improving Accuracy of Capacitance Participation Simulations for Superconducting Quantum Devices
	11:30 AM			9:30 AM	Kyla Letko (PML): Laser Intensity Stabilization for Interrogation of a Trapped 88Sr+ Ion
	11:45 AM			9:45 AM	Gavin Lopez (PML): Low-Noise PCB Development of a Coherent Microwave Synthesizer for the NIST Cesium Fountains
Time (ET)			Time (MT)		BREAK
	12:15 PM			Host Info	Host Laboratory: SURF Boulder Moderator: Adaku Ihekwoaba Zoom Moderator: Deborah Hodson
	12:30 PM			10:15 AM	Matthew Younce (ITL): Exploring Likelihood Ratio Systems for Forensic Automatic Speaker Recognition
	12:45 PM			10:30 AM	Christopher Hartman (MML): Analysis of the Efficacy of Machine Learning for Chemical Property Prediction
	1:00 PM			10:45 AM	Ben Mesko (PML): Clock Statistics and Algorithms for Time Scale Ensembles
	1:15 PM			11:00 AM	Henry Axon (PML): RF Birdcage Coil Development for NMR/MRI Quantitative Measurements
	1:30 PM			11:15 AM	Ash Hegde (PML): Arduino Platform Increases Sensitivity of Smart Hydrogel pH Measurements
Time (ET)			Time (MT)	11:30 AM	LUNCH BREAK
	2:30 PM			Host Info	Host Laboratory: SURF Boulder Moderator: Harshit Agarwal Zoom Moderator: Kyla Letko
	2:45 PM			12:30 PM	Ian Soukup (ITL): (CHIPS) Witnessing Discrepancy in Imaging
	3:00 PM			12:45 PM	Genevieve Holliday (PML): (CHIPS) Development of Quantitative Analysis Standards for FIB-SIMS
	3:15 PM			1:00 PM	Deborah Hodson (CTL): (CHIPS) Measuring Sound Speed Dispersion Relations in Piezoelectric Materials
	3:30 PM			1:15 PM	Andrew Fox (CTL): (CHIPS) An Improved Correlation Instrument for Measurements of Noise in Amplifiers and Transistors
	3:45 PM			1:30 PM	Adaku Ihekwoaba (CTL): Methods for Disseminating Public Safety Communications Research Updates to Key Stakeholders
					Boulder Colloquium Closing Remarks: Susan Schima
END of 2025 SURF Colloquium					
THANK YOU! CONGRATULATIONS!					